

**Document title** Remove/install right cylinder head cover

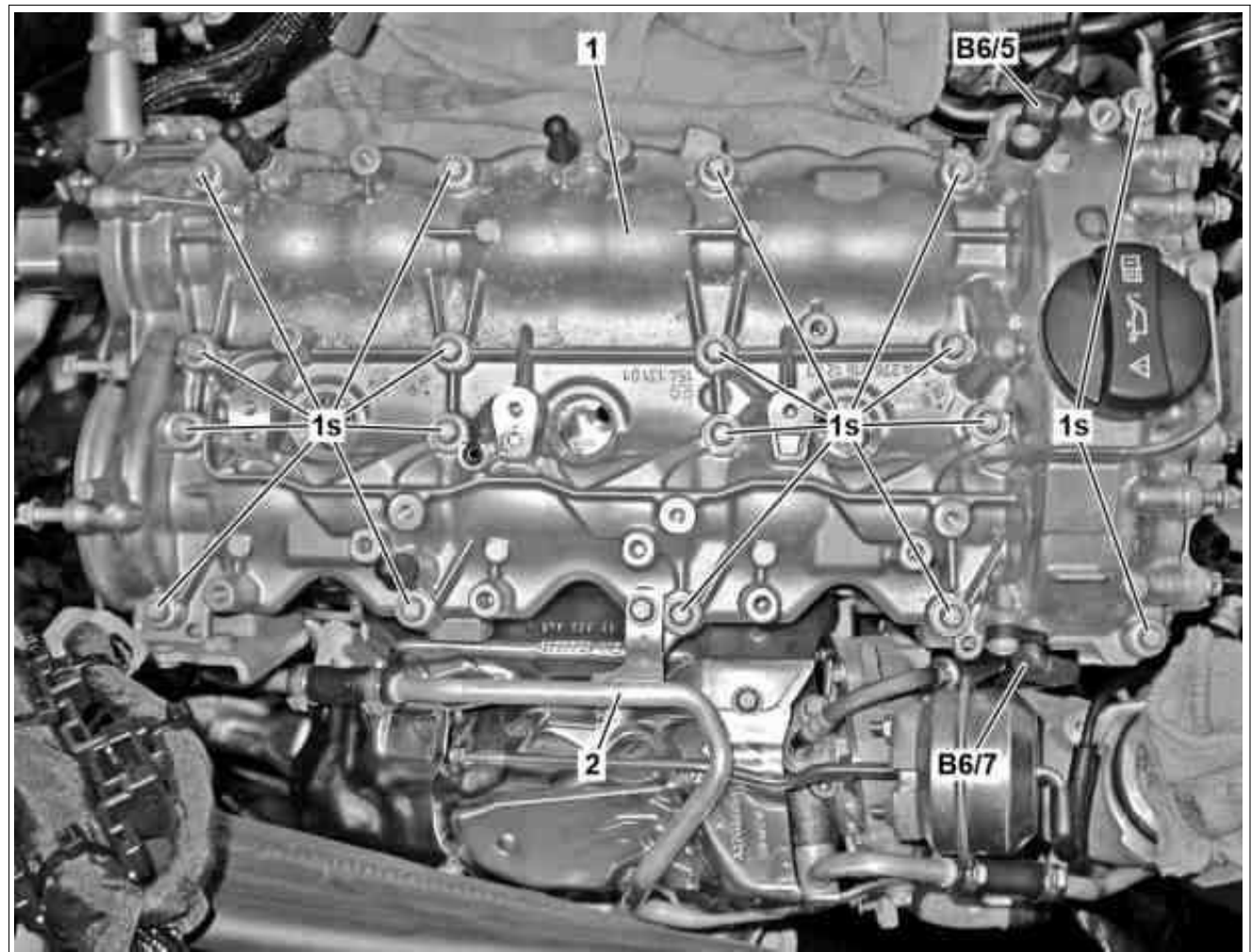
**Document number** ar0120p5012els

Engine 276.8 in model 207, 212, 218

### Modification notes
















05.08.2019	Information document AH00.00-P-0500-01MNE, added.	Operation step 19.	
05.08.2019	Information document AH05.20-P-1000-09SZ, added.	Operation step 21.	

- 1 Right cylinder head cover  
 1s Bolts  
 2 Coolant feed line  
 B6/5 Right intake camshaft Hall sensor  
 B6/7 Right exhaust camshaft Hall sensor



P01.20-2338-06

⚠ Warning	<b>Risk of injury</b> caused by fingers being jammed or pinched when removing, installing or aligning hoods, doors, trunk lid/rear-end door or sliding roof.	No parts of the body or limbs should be within the operating area when the components are moving.	AS00.00-Z-0011-01A
	Notes on threaded connections with aluminum screws/bolts		AH00.00-P-0006-01RM
	General information on work on gasoline direct injection system		AH07.00-P-2000-01A
☒ ☒	<b>Remove/install</b>		
1	Open engine hood and position upright.	Engine 276.8 in model 207, 212, 218 Model 207, 212 with engine 276.8	AR88.40-P-1000EW
2	Disconnect ground line from battery. Notes on battery		AR54.10-P-0003EW AH54.10-P-0001-01A
3	Remove upper engine cover.		
4	Remove ME-SFI [ME] control unit.		AR07.08-P-7008ELS
5	Remove air filter housing.		AR09.10-P-1150ELS
6	Remove noise dampening of the right and left fuel injectors.		
7	Drain off coolant. Notes on coolant	Model 207 with engine 276.8  Model 212, 218 with engine 276.8	AR20.00-P-1142A AH20.00-N-2080-01A AR20.00-P-1142EL
8	Remove coolant hose of the heating from the bulkhead.		
9	Remove center section of the bulkhead.	Engine 276.8 in model 207, 212, 218 Engine 276.8 in model 212	AR61.25-P-6600EW
10	Remove engine wiring harness on the engine side and set aside.		AR01.00-P-2410-02ELS
11	Remove charge air cooler from the hoses of the charge air pipes and remove from the throttle valve actuator and pull toward the front with connected lines.		AR09.41-P-6819ELS
12	Remove ignition coils.	Model 207 with engine 276.8 Model 212, 218 with engine 276.8	AR15.12-P-2003FH AR15.12-P-2003EL

13	Remove high pressure pump housing.	Model 207 with engine 276.8 Model 212, 218 with engine 276.8	AR07.02-P-1020FH AR07.02-P-1020EL
14	Remove centrifuge cover from the right cylinder head cover (1) and cylinder head.	 Do not bend centrifuge cover too far to the rear. The oil lines to the oil separator will be damaged otherwise.  <b>Installation:</b> Replace seal.	AR01.20-P-2100ELS
15	Remove right rail.	Model 207 with engine 276.8 Model 212, 218 with engine 276.8	AR07.03-P-1010FH AR07.03-P-1010EL
16	Remove front cover from the right cylinder head.		AR01.30-P-5712ELS
17	Remove coolant feed line (2) from the exhaust gas turbocharger and right cylinder head cover (1).	Engine 276.8 in model 207, 212, 218 except code 920 (Direct petrol injection with stratified charging)  <b>Installation:</b> Replace seal.  Bolt for coolant line attachment  Bolt, coolant feed/return line to turbocharger	*BA09.40-P-1010-01W *BA09.40-P-1008-01W
18	Loosen screws (1s) of the right cylinder head cover (1) in reverse order of the tightening procedure and remove.	Bolt tightening procedure for cylinder head cover  <b>Installation:</b> Replace screw/bolts (1s) with new ones.  Screw/bolt, cylinder head cover to cylinder head	AR01.20-P-5014-03MMA *BA01.20-P-1004-01L
19	Carefully pry off right cylinder head cover (1) from the cylinder head. Notes on application of flange sealants to seal major assemblies Notes on sealant path for cylinder head cover	 Do <b>not</b> hammer in a tool to pry off between the right cylinder head cover (1) and cylinder head. The sealing surfaces can be damaged otherwise.  <b>Installation:</b> Apply sealant as per the notes on sealant path to the right cylinder head cover (1). Sealant, Loctite 5970, 50 ml  Application gun	AH00.00-P-0500-01MNE AH01.30-P-1000-08MM *BR00.45-Z-1013-01A *112589002500
20	Modify right intake camshaft Hall sensor (B6/5), right exhaust camshaft Hall sensor (B6/7), and all brackets on the right cylinder head cover (1).	Only when replacing the right cylinder head cover (1)  Bolt, camshaft Hall sensor to cylinder head cover	*BA15.10-P-1006-03E
	<b>Check</b>		
21	Check camshaft mounts in the right cylinder head cover (1) and check camshafts for galling and score marks. General information on checking camshafts and bearing points of camshafts	If the camshaft mounts are damaged, ↓ Replace right cylinder head cover or right camshaft. Engine 276.8 in model 212, 218 Engine 276.8 in model 207	AH05.20-P-1000-09SZ AR05.20-P-6992EL AR05.20-P-6992FH
	<b>Clean</b>		
22	Clean sealing surfaces on the cylinder head and right cylinder head cover (1).	 Do not use any sharp-edged tools or abrasive paper. The sealing surfaces can be damaged otherwise. Loctite 7200 Loctite 7063 (400 ml) cleaning spray	AR01.00-P-0050-01A *BR00.45-Z-1038-04A *BR00.45-Z-1046-04A
23	Install in the reverse order.		
24	Check engine cooling system for leak tightness.	Model 207 with engine 276.8 Model 212, 218 with engine 276.8	AR20.00-P-1010ELA AR20.00-P-1010EL
25	Check engine oil level and correct if necessary.		AP18.00-P-0101CWZ
 Warning	<b>Risk of accident</b> from vehicle starting off by itself when engine running. <b>Risk of injury</b> (bruises and burns) resulting from working on the engine while it is being started or when it is running.	Secure vehicle to prevent it from starting off by itself. Wear closed and snug-fitting work clothes. Do not touch hot or rotating parts.	AS00.00-Z-0005-01A

26	Perform engine test run and check engine in terms of leak tightness while engine is running.		
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**Nm** Crankcase ventilation, cylinder head cover

Number	Designation		Engine 276
BA01.20-P-1004-01L	Screw/bolt, cylinder head cover to cylinder head	Stage 1	Nm 12
		Stage 2	∠° 90

**Nm** Turbocharger

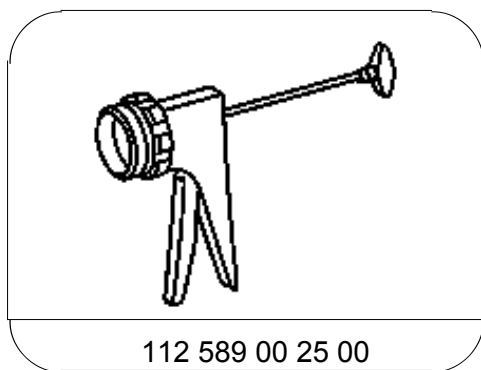
Number	Designation		Engine 276.8
BA09.40-P-1008-01W	Bolt, coolant feed/return line to turbocharger		Nm 9

**Nm** Turbocharger

Number	Designation		Engine 276.8
BA09.40-P-1010-01W	Bolt for coolant line attachment	M6	Nm 9

**Nm** Position sensor

Number	Designation		Engine 276
BA15.10-P-1006-03E	Bolt, camshaft Hall sensor to cylinder head cover		Nm 9



112 589 00 25 00

Application gun

**Repair materials**

Number	Designation	Order number
BR00.45-Z-1013-01A	Sealant, Loctite 5970, 50 ml	A 003 989 98 20 10
BR00.45-Z-1038-04A	Loctite 7200	Henkel AG & Co. KGaA <a href="http://www.loctite.de">http://www.loctite.de</a>
BR00.45-Z-1046-04A	Loctite 7063 (400 ml) cleaning spray	A 001 986 71 71 09